



# 2021/2022 EFRS Radiotherapy Webinar Series

*(Part of the SAFE Europe Project)*

All webinars run at 21.00 hrs Central European Time ([check](#) your time zone)

## REGISTRATION

### Risk Management in Radiotherapy

#### Episode 1. Software-related accidents in radiotherapy: what can we learn from them?

Date: 06 October 2021

**Moderators:**

**Charlotte Beardmore**, EFRS President, The Society and College of Radiographers, UK  
**Anastasia Sarchosoglou**, Chair of the EFRS Radiotherapy Committee, General Oncological Hospital of Kifisia “Ag. Anargyroi”, Greece

**Speaker:** **Natalia Silvis-Cividjian**, Vrije Universiteit Amsterdam, the Netherlands.

**Learning objectives**

1. Understand the role of software in the whole RT process
2. Get familiarized with two notorious software-related RT accidents
3. Learn about STAMP, a new systems-theoretic method to analyze accidents
4. Identify some of the challenges of using software in radiotherapy

## Episode 2. Mini-series incident cases: Incident learning in proton therapy in MAASTRO: An incident due to wrong table density.

Date: 20 October 2021

**Moderator:**

**Gianfranco Brusadin**, EFRS Radiotherapy Committee, Gustave Roussy Cancer Campus, France

**Speakers:**

**Dénis Eijssen**, Maastru Proton Center, the Netherlands.

**Steffie Schouenberg**, Maastru Proton Center, the Netherlands.

### **Learning objectives**

1. How incident happen in an technical environment
2. To demonstrate how incidents are reported
3. To understand the added value of incidents
4. To highlight the difference between short and long-term improvements

## Episode 3. Proactive risk analysis in practice: Failure Mode and Effects Criticality Analysis (FMECA)

Date: 9 November 2021

**Moderator: Jesse Clarijs – de Jong**, EFRS Radiotherapy Committee, Holland Proton Therapy Center, the Netherlands

**Speaker: Gianfranco Brusadin**, EFRS Radiotherapy Committee, Gustave Roussy Cancer Campus, France.

### **Learning objectives**

1. To understand the basic phases of a proactive risk analysis
2. To understand the principal practical aspects of a FMECA analysis
3. To be aware of the importance of knowing the technical index priority number pitfalls

## Episode 4. Mini-series incident cases: Who is the patient on the treatment table? Learning from a clinical case

Date: 23 November 2021

**Moderator:**

**Patrizia Cornacchione.** President of Italian Association of Radiation Therapy and Medical Physics Technologists. EFRS Radiotherapy Committee. Policlinico Universitario A. Gemelli IRCCS, Italy

**Speaker: Gianfranco Brusadin.** EFRS Radiotherapy Committee, Gustave Roussy Cancer Campus, France.

**Learning objectives**

1. To understand how to analyze a radiotherapy accident in practice
2. To be aware that several contributing factors and the failure of several barriers in the organization could lead to an accident.
3. To understand how to draw up an action plan to reduce the error risk

## Radiotherapy Special Techniques and Technologies

### Episode 5. Radiobiology of hypofractionation

Date: 2 December 2021

**Moderators:**

**Dr Ricardo Khine,** EFRS Radiotherapy Committee, Buckinghamshire New University, UK  
**Jose Guilherme Araujo Seara Couto,** University of Malta, Malta

**Speakers:**

**Dr Ainārs Bajinskis** - EFRS Radiotherapy Committee, University of Latvia, Latvia.  
**Mr. Liam Mannion** - City University of London, UK

**Learning objectives**

1. To understand the principles of radiobiology for hypofractionated radiotherapy schedules
2. To be aware of changes in biological effective dose and late-tissue effects for hypofractionated schedules
3. To understand the application of hypofractionated radiotherapy for prostate cancer

## Episode 6. Organisation of a brachytherapy unit: technology, safety, and patient-centered care

Date: 14 December 2021

**Moderator:** Dr Ainārs Bajinskis. EFRS Radiotherapy Committee, University of Latvia, Latvia.

### **Speakers:**

**Patrizia Cornacchione.** President of Italian Association of Radiation Therapy and Medical Physics Technologists. EFRS Radiotherapy Committee. Policlinico Universitario A. Gemelli IRCCS (Rome)

**Laura Lane.** The Christie NHS Foundation Trust, UK

**Clare Melody.** Leeds Cancer Centre, UK

### **Learning objectives**

1. Discuss the importance of multi-professionality and the key role of radiographers in brachytherapy
2. Highlight patient safety in brachytherapy procedures
3. Demonstrate changes in the brachytherapy procedures after the Covid19 pandemic

## Episode 7. Proton Therapy: theories and practices from a radiographer's perspective

Date: 12 January 2022

**Moderator:** Claire Harman. EFRS Radiotherapy Committee, Cork University Hospital, Ireland.

**Speaker:** Jesse Clarijs – de Jong. EFRS Radiotherapy Committee, Holland Proton Therapy Center, the Netherlands

### Learning objectives

1. Gain insight about the differences between photon and proton RT treatment from a radiographer's perspective.
2. Grow knowledge in the theories and basic principles of proton therapy.
3. Be aware of the way the theoretical differences resonate into the radiographers' decision-making process.

## Episode 8. Online adaptive MRI guided radiotherapy – changing role of the therapeutic radiographer

Date: 25 January 2022

### Moderators:

**Anastasia Sarchosoglou**, Chair of the EFRS Radiotherapy Committee, General Oncological Hospital of Kifisia "Ag. Anargyroi", Greece

**Jose Guilherme Araujo Seara Couto**, University of Malta,

**Speaker:** Dr Helen McNair. Royal Marsden NHS Foundation Trust and Institute of Cancer Research, UK.

### Learning objectives

1. Understanding adaptive workflow
2. Professional responsibilities and the impact on radiographer role
3. Education and training needs of the future